HISTORIC AMERICAN ENGINEERING RECORD

INDEX TO PHOTOGRAPHS

Keokuk and Hamilton Bridge Between Keokuk, Iowa and Hamilton, Illinois

HAER No. IA-3

Documentation:

66 photographs (1982)

30 Photocopies of original design documents

2 photocopies of postcards showing the

1869-71 bridge

1 photocopy of postcard showing existing

bridge

2 photocopies of photographs taken c. 1913,

showing the 1869-71 bridge

54 data pages

Sarah J. Dennett, Robert A. Ryan and Hans Muessig, photographers, Dennett, Muessig & Associates, Ltd., Iowa City, Iowa, November, 1981 and March, 1982.

- IA-3-1 GENERAL VIEW FROM UPSTREAM ON THE IOWA SHORE, LOOKING S. PHOTOGRAPHER: SARAH J. DENNETT
- IA-3-2 GENERAL VIEW FROM DOWNSTREAM ON THE ILLINOIS SHORE, LOOKING NNE.
 PHOTOGRAPHER: SARAH J. DENNETT
- IA-3-3 GENERAL VIEW FROM UPSTREAM ON THE ILLINOIS SHORE, LOOKING WSW.
 PHOTOGRAPHER: SARAH J. DENNETT
- IA-3-4 THREE-QUARTER VIEW FROM DOWNSTREAM ON THE IOWA SHORE, LOOKING E (SWING SPAN PARTIALLY OPEN.) PHOTOGRAPHER: SARAH J. DENNETT
- IA-3-5 THREE-QUARTER VIEW FROM DOWNSTREAM ON THE ILLINOIS SHORE, LOOKING NNW.
 PHOTOGRAPHER: HANS MUESSIG
- IA-3-6 KEOKUK HIGHWAY APPROACH AND TOLLBOOTH, LOOKING ESE. PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-7 KEOKUK HIGHWAY APPROACH FROM SWING SPAN FENDER, LOOKING WNW.
 PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-8 TOLLBOOTH AT KEOKUK: NORTHWEST ELEVATION. PHOTOGRAPHER: SARAH J. DENNETT

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- IA-3-9 KEOKUK HIGHWAY APPROACH TRESTLE, LOOKING NE. PHOTOGRAPHER: SARAH J. DENNETT
- IA-3-10 KEOKUK HIGHWAY APPROACH TRESTLE. PHOTOGRAPHER: SARAH J. DENNETT
- IA-3-11 KEOKUK RAILROAD APPROACH.
 PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-12 KEOKUK RAILROAD APPROACH, SHOWING ORIGINAL STONE WALL AND ROADBED, LOOKING NW.
 PHOTOGRAPHER: SARAH J. DENNETT
- IA-3-13 KEOKUK APPROACH SHOWING THE SEPARATION OF THE HIGHWAY AND RAILROAD ALIGNMENTS. PHOTOGRAPHER: SARAH J. DENNETT
- IA-3-14 ONE BENT ON THE KEOKUK HIGHWAY APPROACH TRESTLE. PHOTOGRAPHER: SARAH J. DENNETT
- IA-3-15 GENERAL DECK VIEW, KEOKUK HIGHWAY APPROACH, LOOKING E TOWARD THE BRIDGE. PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-16 SWING SPAN: UPSTREAM ELEVATION, LOOKING SSW. PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-17 SWING SPAN: DOWNSTREAM ELEVATION, LOOKING NNE. PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-18 SWING SPAN: THREE-QUARTER VIEW FROM DOWNSTREAM ON IOWA SHORE, LOOKING NE. PHOTOGRAPHER: SARAH J. DENNETT
- IA-3-19 SWING SPAN: CENTER TOWER AND BRIDGE TENDER'S HOUSE.
 PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-20 SWING SPAN: RAILROAD DECK.
 PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-21 BRIDGE TENDER'S HOUSE FROM RAILROAD DECK, LOOKING SE. PHOTOGRAPHER: SARAH J. DENNETT
- IA-3-22 INTERIOR OF BRIDGE TENDER'S HOUSE SHOWING CLUTCH AND BRAKE HANDLES, AIR VALVE FOR RAIL LOCKS, AND MOTOR CONTROLLER FOR TURNING MACHINERY, LOOKING N. PHOTOGRAPHER: SARAH J. DENNETT & ROBERT A. RYAN

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- IA-3-23 INTERIOR OF BRIDGE TENDER'S HOUSE SHOWING INDICATORS FOR RAIL LOCKS AND END LIFT MACHINERY (RIGHT), LOOKING ESE. PHOTOGRAPHER: SARAH J. DENNETT & ROBERT A. RYAN
- IA-3-24 REDUCTION GEARING FOR SWING MACHINERY; ALSO SHOWING DRIVE PINION, RACK AND ROLLERS. PHOTOGRAPHER: HANS MUESSIG
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 PHOTOGRAPHER: HANS MUESSIG
- IA-3-26 DRUM, SHOWING ROLLERS AND RACK. PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-27 INTERIOR OF DRUM, OVERALL VIEW.
 PHOTOGRAPHER: SARAH J. DENNETT & ROBERT A. RYAN
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 PHOTOGRAPHER: HANS MUESSIG
- IA-3-29 BARREL SHOT OF SWING SPAN IN OPEN POSITION. PHOTOGRAPHER: HANS MUESSIG
- IA-3-30 END FLOOR BEAM AND LIFTING JACKS ON SWING SPAN LOOKING TOWARD CENTER TOWER.
 PHOTOGRAPHER: HANS MUESSIG
- IA-3-31 END FLOOR BEAM AND LIFTING JACKS ON SWING SPAN, LOOKING AWAY FROM THE CENTER TOWER. PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-32 SWING SPAN: HIGHWAY DECK, SHOWING AUTOMOBILE BARRICADES.
 PHOTOGRAPHER: SARAH J. DENNETT
- IA-3-33 UPPER CONNECTIONS AT SWING SPAN CENTER TOWER. PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-34 TOP CHORD OF ILLINOIS ARM OF SWING SPAN. PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-35 INSIDE VIEW OF THE TOP CHORD-ENDPOST CONNECTION ON THE SWING SPAN.
 PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-36 SWING SPAN: BOTTOM CHORD CONNECTION AT 5L. PHOTOGRAPHER: ROBERT A. RYAN

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- IA-3-37 BOTTOM CHORD CONNECTION AT CENTER TOWER AND DRUM. PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-38 SWING SPAN: BOTTOM CHORD CONNECTION AT 4L. PHOTOGRAPHER: HANS MUESSIG
- IA-3-39 SWING SPAN: ABUTMENT AND ENDPOST. PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-40 SWING SPAN: LIFTING AND LOCKING JACKS ON ABUTMENT. PHOTOGRAPHER: HANS MUESSIG
- IA-3-41 RAIL LOCKS ON SWING SPAN. PHOTOGRAPHER: HANS MUESSIG
- IA-3-42 UPSTREAM ELEVATION OF THE TWO PARKER SPANS, LOOKING SSE. PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-43 THREE-QUARTER VIEW OF PARKER SPAN FROM DOWNSTREAM ON IOWA SHORE, LOOKING NE. PHOTOGRAPHER: HANS MUESSIG
- IA-3-44 PIER 2 FROM PIER 1, SWING SPAN OPEN; BARREL SHOT OF PARKER TRUSS.
 PHOTOGRAPHER: HANS MUESSIG
- IA-3-45 TOP CHORD OF PARKER SPAN FROM WALKWAY. PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-46 PARKER SPAN: TOP CHORD CONNECTION 4L. PHOTOGRAPHER: SARAH J. DENNETT
- IA-3-47 PARKER SPAN: CONNECTION BETWEEN ENDPOST AND TOP CHORD.
 PHOTOGRPAHER: HANS MUESSIG
- IA-3-48 HIGHWAY FLOORBEAM ATTACHMENT TO VERTICALS OF PARKER SPAN.
 PHOTOGRAPHER: HANS MUESSIG & SARAH J. DENNETT
- IA-3-49 PARKER SPAN: BOTTOM CHORD CONNECTION 2L. PHOTOGRAPHER: HANS MUESSIG & SARAH J. DENNET
- IA-3-50 PARKER SPAN: BOTTOM CHORD CONNECTION AT 4L. PHOTOGRAPHER: ROBERT A. RYAN

IA-3-51	DOWNSTREAM ELEVATION OF PRATT SPAN, LOOKING NNE. PHOTOGRAPHER: HANS MUESSIG
IA-3-52	THREE QUARTER VIEW OF PRATT SPANS, LOOKING NNW. PHOTOGRAPHER: HANS MUESSIG
IA-3-53	PORTAL OF PRATT SPAN AT HAMILTON END. PHOTOGRAPHER: HANS MUESSIG
IA-3-54	DECK OF PRATT SPAN, LOOKING ESE TOWARD ILLINOIS SHORE. PHOTOGRAPHER: ROBERT A. RYAN
IA-3-55	HAMILTON ABUTMENT. PHOTOGRAPHER: HANS MUESSIG
IA-3-56	PRATT SPAN: FIXED SHOE ON HAMILTON ABUTMENT. PHOTOGRAPHER: ROBERT A. RYAN
IA-3-57	INTERIOR OF PRATT SPAN SHOWING TOP LATERAL BRACING, TOP CHORD, AND TRUSS PANEL, LOOKING NW. PHOTOGRAPHER: HANS MUESSIG
IA-3-58	PRATT SPAN: CONNECTION BETWEEN TOP CHORD AND INCLINED END POST. PHOTOGRAPHER: HANS MUESSIG
IA-3-59	PRATT SPAN: TOP CHORD CONNECTION 2L. PHOTOGRAPHER: HANS MUESSIG
IA-3-60	PRATT SPAN: BOTTOM CHORD CONNECTION 3R. PHOTOGRAPHER: ROBERT A. RYAN & HANS MUESSIG
IA-3-61	BOTTOM CHORD AND LATERAL BRACING OF PRATT SPAN AND PIER 11. PHOTOGRAPHER: HANS MUESSIG
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IA-3-63	HAMILTON RAILROAD AND HIGHWAY APPROACH. PHOTOGRAPHER: ROBERT A. RYAN
IA-3-64	ILLINOIS HIGHWAY APPROACH LOOKING E. PHOTOGRAPHER: ROBERT A. RYAN

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- IA-3-65 HAMILTON APPROACH LOOKING TOWARD BRIDGE, SHOWING TRANSFER OF THE HIGHWAY APPROACH TO THE BRIDGE STRUCTURE.
 PHOTOGRAPHER: ROBERT A. RYAN
- IA-3-66 TRUSS WORK AT ROADWAY CURVE ON TO BRIDGE, LOOKING NW. PHOTOGRAPHER: ROBERT A. RYAN

HISTORIC VIEW:

- IA-3-67 PHOTOCOPY OF POSTCARD (ORIGINAL IN THE POSSESSION OF THE STATE HISTORICAL SOCIETY OF IOWA)
 POSTMARK 1906
 ORIGINAL (1869-71) KEOKUK AND HAMILTON BRIDGE,
 FROM NORTHWEST
- IA-3-68 PHOTOCOPY OF POSTCARD (ORIGINAL IN THE POSSESSION OF THE STATE HISTORICAL SOCIETY OF IOWA)
 WESTERN MERCANTILE CO., KEOKUK, IOWA; POSTMARK
 1911
 ORIGINAL (1869-71) KEOKUK AND HAMILTON BRIDGE,
 FROM WSW
- IA-3-69 PHOTOCOPY OF PHOTOGRAPH (ORIGINAL IN THE POSSESSION OF THE STATE HISTORICAL SOCIETY OF IOWA)

 DATED 5 JULY 1913

 ORIGINAL (1869-71) KEOKUK AND HAMILTON BRIDGE, FROM N
- PHOTOCOPY OF PHOTOGRAPH (ORIGINAL IN THE POSSESSION OF THE STATE HISTORICAL SOCIETY OF IOWA)

 ANSCHUTZ, PHOTOGRAPHER, C. 1913

 ORIGINAL (1869-71) KEOKUK AND HAMILON BRIDGE, FROM N
- PHOTOCOPY OF POSTCARD (ORIGINAL IN THE POSSESSION OF THE STATE HISTORICAL SOCIETY OF IOWA)

 L. L. COOK CO., MILWAUKEE, NO POSTMARK
 SECOND (1915-1916) KEOKUK AND HAMILTON BRIDGE,
 FROM NW

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ORIGINAL DESIGN DOCUMENTS

Ink on Linen, also microfilmed

Note:	Piers and spans are numbered west to east. The abutments on the Iowa and Illinois shores are not numbered. Sheet titles are as shown on the drawings. All drawings signed by Ralph Modjeski.
IA-3-72	PHOTOCOPY OF DRAWING, GENERAL ELEVATION AND PLAN, 1" = 80' (INCLUDES ENTIRE BRIDGE)
IA-3-73	PHOTOCOPY OF DRAWING, SUBSTRUCTURE, PIERS 1 - 11 INCLUSIVE, 3/16" = 1'
IA-3-74	PHOTOCOPY OF DRAWING, STRESS SHEET, SPAN 4, 1" = 10' (PRATT, 160' 5 1/4")
IA-3-75	PHOTOCOPY OF DRAWING, STRESS SHEET, SPAN 7, 1" = 10' (PRATT, 146' 11 7/8")
IA-3-76	PHOTOCOPY OF DRAWING, STRESS SHEET, SPANS 8 - 11 INCLUSIVE, 1" = 10' (PRATTS, 162' 8 3/8")
IA-3-77	PHOTOCOPY OF DRAWING, SPANS 4 - 11, TRUSSES, 3/4" = 1' (HALF ELEVATION, SEVERED)
IA-3-78	PHOTOCOPY OF DRAWING, FLOOR AND BRACING, SPANS 4 - 11 INCLUSIVE, 3/4" = 1'
IA-3-79	PHOTOCOPY OF DRAWING, END BEARINGS, SPANS $4 - 11$ INCLUSIVE, $3/4" = 1'$
IA-3-80	PHOTOCOPY OF DRAWING, STRESS SHEET, SPANS 2 AND 3, 1" = 20' (PARKERS, 254' 5 1/4")
IA-3-81	PHOTOCOPY OF DRAWING, SPANS 2 AND 3, TRUSSES LO - L2, 3/4" = 1' (ELEVATION, SEVERED)
IA-3-82	PHOTOCOPY OF DRAWING, SPANS 2 AND 3, TRUSSES L3 - L4, 3/4" = 1' (ELEVATION, SEVERED)
IA-3-83	PHOTOCOPY OF DRAWING, SPANS 2 AND 3, FLOORS AND BRACING, 3/4" = 1' (PLAN VIEWS)
IA-3-84	PHOTOCOPY OF DRAWING, SPANS 2 AND 3, LATERALS, 3/4" = 1' (TOP AND BOTTOM LATERAL BRACING)

IA-3-85	PHOTOCOPY OF DRAWING, SPANS 2 AND 3, END FLOOR BEAM AND BRACING, $3/4"=1"$
IA-3-86	PHOTOCOPY OF DRAWING, SPANS 2 AND 3, END BEARINGS, 1 1/2" = 1'
IA-3-87	PHOTOCOPY OF DRAWING, SPAN 1, STRESS SHEET, $1" = 15'$ (SWING SPAN, 377' 1 1/2")
IA-3-88	PHOTOCOPY OF DRAWING, SPAN 1, TRUSSES LO - L3 INCLUSIVE, 3/4" = 1' (ELEVATION, SEVERED)
IA-3-89	PHOTOCOPY OF DRAWING, SPAN 1, TRUSSES L4 - L6 INCLUSIVE, 3/4" = 1' (ELEVATION, SEVERED)
IA-3-90	PHOTOCOPY OF DRAWING, SPAN 1, CENTER SUPPORT FOR WIRES AND LAMP, VARIOUS SCALES
IA-3-91	PHOTOCOPY OF DRAWING, SPAN 1, FLOORS AND BRACING, 3/4" = 1' (SECTION AND PLAN)
IA-3-92	PHOTOCOPY OF DRAWING, SPAN 1, BOTTOM LATERALS, 3/4" = 1'
IA-3-93	PHOTOCOPY OF DRAWING, SPAN 1, DETAILS OF DRUM, 3/4" = 1' (ELEVATION, PLAN, AND SECTION)
IA-3-94	PHOTOCOPY OF DRAWING, SPAN 1, TURETABLE, 3/4" = 1'
IA-3-95	PHOTOCOPY OF DRAWING, SPAN 1, DETAILS OF TURNTABLE MACHINERY, 3/4" and 1 1/2" = 1' (CENTER CONE, RADIAL STRUT RING, TRACK, ROLLERS, PINION GEARS)
IA-3-96	PHOTOCOPY OF DRAWING, SPAN 1, POWER GEARING, 3/4" = 1'
IA-3-97	PHOTOCOPY OF DRAWING, SPAN 1, END LIFT MACHINERY, 3/4" = 1'
IA-3-98	PHOTOCOPY OF DRAWING, SPAN 1, GENERAL ARRANGEMENT OF RAIL LOCK AND END LIFT MACHINERY, 3/4" = 1'
IA-3-99	PHOTOCOPY OF DRAWING, SPAN 1, RAIL LATCH, 3" and 6" = 1'
IA-3-100	PHOTOCOPY OF DRAWING, SKETCHES SHOWING OPERATION OF AUTOMATIC SHIFTER
IA-3-101	PHOTOCOPY OF DRAWING, SPANS 1 - 11, GEOMETRICAL AND DISTORTED LENGTHS